

## ABSTRACT

An optoelectronic device for detecting labels with defined contrast patterns includes a transmitter for emitting light rays, a receiver for receiving light rays , as well as a deflection unit with a motor-driven polygonal mirror wheel. The transmitted light rays and the received light rays are guided over the polygonal mirror wheel in order to scan the labels and reassemble the label-reflected received light rays, respectively. The device furthermore is provided with an evaluation unit for evaluating electrical receiving signals converted from received light rays at the receiver. The motor for driving the polygonal mirror wheel has a drive shaft and is provided with a magnet that is an injection-molded part, which is formed onto the shaft and operates jointly with at least one coil.

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